COMPARATIVE ANALYSIS OF CONVENTIONAL METHOD WITH ACTIVITY BASED COSTING IN PT MULIA SEJATI GALLERY

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ABSTRACT

The goal of this research was to provide readers the information about the calculation methods, both traditional and activity-based costing in the application of the cost of production. The method used in this research was the qualitative method. The analysis was done by calculating the amount of the production cost using the traditional system and the magnitude of the production cost when using the activity-based costing system. The amount of each acquisition was then performed into data analysis. The results achieved are massive distortion between the calculations using traditional systems and activity based costing system. The conclusions of the whole thesis are activity-based costing system is considered more relevant than traditional systems that are currently used by the company.

Keywords: management accounting, activity based costing, conventional accounting

INTRODUCTION

Problem formulations in this research are the company's production process, calculation of the production cost that is carried out by the company, the calculation of the production cost when using activity based costing, the comparison between the two methods, and reconciliation. Figure 1 explains the activity in one company based on the cost.

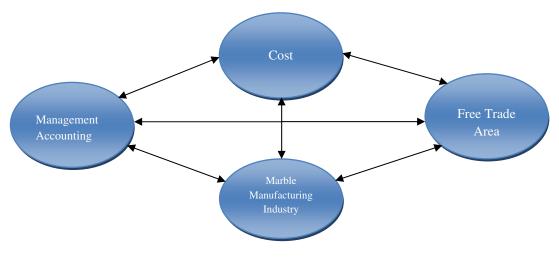


Figure 1 Activity Based Costing

The goals of this research are to know how to calculate the production cost of marble products that made by the company, the calculation of production cost if using activity-based costing system in the product that made from marble with the type of Common (Travertine and Empire Beige), Limited (Opera Vaticano and Golden Venatino), and Exotic (Statuario and Potoro Gold), and the difference in costs incurred both. Application of activity is based on costing in a textile company in Pakistan. The case study is an international journal that discussed the determination of activity-based costing system in a textile company in Pakistan. That journal is organized in Islamabad (capital of Pakistan) in 2013 which is made by Godil that discusses the implementation of the activity-based costing system in the textile industry. Research on this journal is performed to facilitate the public in setting the cost of production in the textile company that studies and shows the company wants to compete in price, determine the cost of production, as well as the advantages and disadvantages of this system which is really needed. According to Atkinson, et al., (2012) the description of the cost is as follows:

"The monetary value of goods or services issued to benefit present or future. Therefore, while the cost reflects the outflow of sources such as cash or financial commitment to pay in the future. The cash outflow brings benefits that can be used to make products that can be sold to generate a cash benefit ".

Carter (2009) has defined cost as an exchange, expenses, or sacrifices that are made to ensure the acquisition of the benefits. Dunia and Wasillah (2012) have suggested that the cost of production is the costs incurred in connection with manufacturing activities. The cost of production is divided into three broad categories, namely direct material, direct labor, and manufacturing overhead. While Hansen and Mowen (2007) have defined the traditional methods of calculating the production cost by cost charging function of direct materials and direct labor using direct search. Overhead costs, on the other hand, is charged by using a driving element and allocation. According to Garrison, Noreen, and Brewer (2013), in the traditional accounting, all expenses are charged to production costs even products cost that is not caused by products. For example, some wages for the security of the plant will be located on the product even though the wages of security guards is completely unaffected whether the firm produces or not.

Horngren, *et al.*, (2007) have defined the activity based costing by identifying individual activities as the fundamental cost objects. An activity is an event, task, or a unit of work with the specific purpose. It means that activity based costing is a purification system costs by identifying the individual activities as the fundamental cost objects and activities are undertaken in the form of an event, a task, or work unit with a specific goal. According to Garrison, Norren, Brewer (2013), it is activity based costing that method is designed to provide cost information for managers to strategic decision-making and other decisions that affect the capacity and fixed costs. Weygandt, Kimmel, Kieso (2010) have defined that activity based costing is a cost accounting system that focuses on the activities performed in the specific manufacturing a product that can be interpreted as activity basedcosting that system exists in cost accounting. It focuses on the activities conducted in the manufacturing process of a product.

METHODS

The method used is the qualitative method that uses primary data as a reference. Primary data is obtained directly from the company related to the documents concerning production processes and documents relating to the calculation of the cost of production that carried out by the company and other supporting documents on the website of the company. The collection method to obtain these data is carried out as follows (1) Library research by collecting the required information or data related to

the topics discussed. (2) Field research by conducts researches to obtain information directlyby visiting the company. Field research can be done by observation, interview, and re-performance.

RESULTS AND DISCUSSIONS

Figure 2 shows the production process within the company. It can be seen that the process consists of three stages, namely the initial stage, processing stage, and final stage.

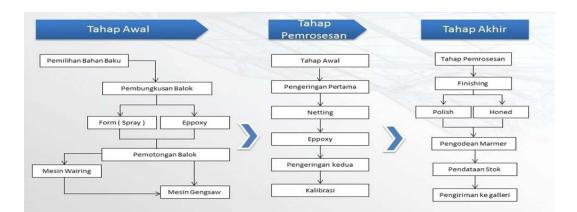


Figure 2 Production Process

Table 1 shows the method calculation that is used by the company (traditional).

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Table 1	Cost of Phone	e Bills Wate	- Electricity	and Property	Tax in 2013
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Phone Bills P	er Year
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24%	21%	17%	15%	13%	10%	100%
Travertine	Empire Beige	Opera Vaticano	Golden Venatino	Statuario	Potoro Gold	Total
Rp25.252.049	Rp22.095.543	Rp17.886.868	Rp15.782.531	Rp13.678.193	Rp10.521.687	Rp105.216.870
			Electricity BillPer Yea	ar		
24%	21%	17%	15%	13%	10%	100%
Travertine	Empire Beige	Opera Vaticano	Golden Venatino	Statuario	Potoro Gold	Total
Rp236.366.208	Rp206.820.432	Rp167.426.064	Rp147.728.880	Rp128.031.696	Rp98.485.920	Rp984.859.200
2457	A1 <i>C</i>	100	Water Bill Per Year	10.0	10.07	100.00
24%	21%	17%	15%	13%	10%	100%
Travertine	Empire Beige	Opera Vaticano	Golden Venatino	Statuario	Potoro Gold	Total
Rp125.702.592	Rp109.989.768	Rp89.039.336	Rp78.564.120	Rp68.088.904	Rp52.376.080	Rp523.760.800
			Property Tax Per Yea	r		
24%	21%	17%	15%	13%	10%	100%
Travertine	Empire Beige	Opera Vaticano	Golden Venatino	Statuario	Potoro Gold	Total
Rp3.228.000	Rp2.824.500	Rp2.286.500	Rp2.017.500	Rp1.748.500	Rp1.345.000	Rp13.450.000

The allocation of costs is charged by percentage of each product; that will be included in the calculation of factory overhead. It becomes the important thing to do, where company allocates detail costs which actually happen then charged to each product.

			ole Cost luction			
	Statuario	Potoro Gold	Opera Vaticano	Golden Ventino	Travertine	Empire Beige
Direct Cost Production						
Marble Cost Production	Rp9,782,690,080	Rp10,987,655,700	Rp9,876,549,500	Rp10,712,675,770	Rp9,234,957,000	Rp10,563,004,500
Import Taxes (Has Import Identification Number)	Rp244.567.252	Rp274.691.393	Rp246.913.738	Rp267.816.894	Rp230.873.925	Rp264.075.113
Total of Direct Raw Material Direct Labor	Rp10.027.257.332	Rp11.262.347.093	Rp10.123.463.238	Rp10.980.492.664	Rp9.465.830.925	Rp10.827.079.613
Total of Direct Labor Overhead Factory	Rp110.635.200	Rp85.104.000	Rp144.676.800	Rp127.656.000	Rp204.249.600	Rp178.718.400
Cost of Lab Marble	Rp58.216.400	Rp62.111.900				
Indirect Raw Material:						
Pigment	Rp33,218,450	Rp39,867,800				
Netting	Rp50,916,812	Rp49,800,350	Rp52,711,980	Rp50,867,400	Rp54,927,450	Rp51,254,800
Eppoxy	Rp43.672.450	Rp48.679.800	Rp44.219.800	Rp49.990.750	Rp43.849.000	Rp47.980.600
Resin	Rp62,234,560	Rp61,960,800	Rp62,876,500	Rp61,411,250	Rp62.914.700	Rp60,509,200
Peeled Stone	Rp21.960.800	Rp24.356.800	Rp22.897.650	Rp25.490.110	Rp23.987.000	Rp27.943.800
Coating	Rp42.567.400	Rp49.861.120	Rp45.527.600	Rp48.870.900	Rp45.897.200	Rp49.800.700
Indirect Labor	Rp214.798.740	Rp165.229.800	Rp280.890.660	Rp247.844.700	Rp396.551.520	Rp346.982.580
PemeliharaandanPerbaikanMesin	Rp50.112.150	Rp48.716.890	Rp52.112.650	Rp50.275.600	Rp57.216.000	Rp53.187.000
Machine Depreciation	Rp18.987.611	Rp16.980.950	Rp20.055.170	Rp19.170.600	Rp24.145.800	Rp20.170.600
Wisting(20% from Raw Material)	Rp2.005.451.466	Rp2.252.469.419	Rp2.024.692.648	Rp2.196.098.533	Rp1.893.166.185	Rp2.165.415.923
Wastewater Treatment Plant	Rp36.211.456	Rp36.540.312	Rp38.251.211	Rp34.875.400	Rp40.821.000	Rp36.987.000
Property Tax	Rp2.198.200	Rp2.145.190	Rp2.286.500	Rp2.017.500	Rp3.228.000	Rp2.824.500
Factory Depreciation	Rp23.976.800	Rp19.386.500	Rp25.211.450	Rp21.245.800	Rp27.430.900	Rp25.325.420
Factory Electricity	Rp128,031,696	Rp98,485,920	Rp167,426,064	Rp147,728,880	Rp36,366,208	Rp206,820,432
Factory Water	Rp68.088.904	Rp52.376.080	Rp89.039.336	Rp78.564.120	Rp25.702.592	Rp109.989.768
Telephone	Rp13.678.193	Rp10.521.687	Rp17.886.868	Rp15.782.531	Rp25.252.049	Rp22.095.543
Vehicle Maintenance	Rp31,435,670	Rp29,856,700	Rp35,761,400	Rp33,217,650	Rp37,814,700	Rp35,911,300
Vehicle Depreciation	Rp32.423.500	Rp29.879.850	Rp37.245.780	Rp33.421.160	Rp42.453.000	Rp39.876.200
Equipment and Supplies	Rp5.567.800	Rp5.112.560	Rp5.219.870	Rp4.870.200	Rp7.243.500	Rp7.723.000
Jagrak (PenyanggaMarmer)	Rp39.265.700	Rp42.380.900	Rp36.780.900	Rp32.398.420	Rp42.850.000	Rp39.761.800
Marble Maintenance	Rp38.691.100	Rp41.267.800	Rp25.230.800	Rp22.460.800		
Other Overhead	Rp57.214.500	Rp57.089.700	Rp58.265.550	Rp54.378.900	Rp67.987.200	Rp66.708.000
Total Overhead of Factory	Rp3.078.920.358	Rp3.245.078.828	Rp3.144.590.334	Rp3.230.981.204	Rp2.259.804.004	Rp3.417.268.166
Cost of Production	Rp13,216,812,890	Rp14,592,529,920	Rp13,412,730,372	Rp14,339,129,868	Rp2,929,884,529	Rp14,123,066,178
Volume of Production	1.745 m2	1.771 m2	3.136 m2	2.948 m2	27.989 m2	21.611 m2
Cost of Production/m2	Rp7574105/m2	Rp8239712/m2	Rp4277019/m2	Rp4864020/m2	Rp461963/m2	Rp667395/m2

Table 2 Calculation of the Production Cost that is Used by the Company (Traditional)

As it can be seen in Table 2, the cost of goods sales of PT MSG does not look proportional. It happens because the company only uses cost driver which is production volume to divide the total costs. This is less proper for some of the cost elements should be used as a cost driver; such as indirect labor costs, machinery depreciation costs, property taxes, and other similar fees. This occurs cost of distortion. Adjustment of the traditional method can give benefit for the growth of the company. Activity-based costing can be used to correct the distortion cost which occurs by the conventional method.

Overbead Pabrik		Travertine	E	mpire Beige		Total Biaya T+E		pera nicano		iolden Inatino		Total Biaya O+G		Statuario	1	Potoro Gold	Т	otal Biaya S + P
Total Biaya 1 (berhubungan dengan volume produksi)																		
Lab Marmer														58.216.400				120.328.300 73.086.250
Netting	Ro	54.927.450	Ro	51.254.800	Ro	106.182.250	Ro	52,711,980	Ro	50.867.400	Ro	103.579.380	Rg.	33.218.450 50.916.812	19.19	39.867.800 49.800.350	Ro	100.717.162
Eppoxy	Ro	43.849.000	Ro	47.930.600			Ro	44.219.800 62.876.500	Ro	49.990.750		94.210.550	Ro	43.672.450	Ro	48.679.800		92.352.250
Resin Bato Kupas	R9 R9	62.914.700 23.987.000	Ro	60.509.200 27.943.800	19 R9	123.423.900 51.930.800	Ro Ro	22.897.650	Ro	61.411.250 25.490.110	R9 R9	124.287.750 48.387.760	RP	62.234.560 21.960.800	R9-89	61.960.800 24.356.800	Ro Ro	124.195.360 46.317.600
Coating	Ro		Ro	49.800.700		95.697.900	Ro	45.527.600	Ro	45.870.900	Ro	94.395.500	Ro	42.567.400	Ro	49.861.120	Ro	92.428.520
Wisting (20% dari bahan Baku)	Rol	893.166.185	Rol	165.415.923	Rot	058.582.108	Rel	024.692.648	Rp 2	196.059.533	Ro 4	220.782.181	Rp 2	005.451.400	Rel	252.469.419	Rp4.	257.920.885
Pengolahan Limbah Pabrik	Ro	40.821.000	Rp	36.987.000	Rφ	77.808.000	Rφ	38.251.211	Ro	34,875,400	Rp	73.126.611	Rp	36.211.456	Rp	36.540.312	Ro	72.751.768
Mesin Gengsaw	Ro	45.523.848	Ro	42.334.712	Ro	\$7.858.560	Rp	34.164.473	Ro	52,383,400	Rp	66.547.873	Ro	19.415.688	Rp	19.083.077	Ro	38.498.765
Mesin wire	٩	9.000.034	Ro	7.973.436	Ro	16.973.470	Ro	2.535.445	Ro	1.279.235	Ro	3.814.650	Ro	1.202.701	Ro	984.035	Rp	2.186.736
Mesin Polish Mesin SEI	Ro	7.693.814	Ro	4.570.265	Ro	12.264.080 10.233.901	Ro	4.023.528 4.634.711	Ro	3.411.300 2.888.785	Ro	7.434.828	Ro	3.583.358 2.789.802	Ro	2.748.383	Ro.	6.331.741 4.757.872
Mesin Honed	19.19	3.308.925	Ro	3.077.651	Rene	6.386.576	19-19	2.868.504	Ro	1.847.782	RPRO	4.715.838	19	1.635.439	RPRO	1.084.738	Rg Rg	2.720.177
Mesin Pompa	Ro	1.434.610	Ro	1.454.176	Ro	2.858.786	Ro	1.464.476	Ro	1.137.094	Ro	2.536.598	Ro	1.130.452	Ro	\$\$5.629	Ro	2.016.111
Limbah Mesin Meja	Ro	2.057.496	Ro	1.809.059	Ro	3.876.555	Ro	2.067.496	Ro	1.292.185	Ro	2.756.661	Ro	1.119.894	Ro	\$61.457	Ro	1.981.351
Transfer Mesin Gantry	Ro	1.312.102	Ro	1.148.089	Ro	2.460.191	Ro	929.405	Ro	\$20.054	Ro	1.749.469	Ro	710,722	Ro	\$46,709	Ro	1.257.431
Crane Marie Gassram				10.025.065				11.975.336			Ro					9.802.303		
Mesin Gengsaw	Ro	10.559.068	Ro	1.128.998	Ro	20.584.134	Ro		Ro	11.315.833 997.223		23.291.169	Ro	10.996.059	Ro		Ro	20.798.362
Mesin wire Mesin Polish	Ro	5.056.897	Ro	4.842.167	Ro	2.299.160 9.899.064	Ro	1.072.523 3.827.876	Ro	3.709.655	Ro	7.537.531	Ro	920.166 301.557	R9-R9	\$75.865	Ro Ro	533.481
Mesin SEI	Ro	4.863.502	Ro	4.553.642	Ro	9.417.144	Ro	2.969.205	Ro	2.553.423	Ro	5.522.628	Ro	2.365.424	Ro	2.311.961	Ro	4.677.385
Mesin Honed	Ro	2.922.644	Ro	2.646.921	Ro	5.569.565	Ro	2.456.161	Ro	2.056.443	Ro	4.512.604	Ro	1.984.908	Ro	1.947.886	Ro	3.932.794
Mesin Pompa Limbah	Ro	1.690.109	Ro	1.404.847	Ro	3.094.956	Ro	1.265.044	Ro	1.237.556	Ro	2.503.600	Ro	1.093.031	Ro	1.145.062	Ro	2.238.093
Telepon	Ro	25,252,049	Ro	22.095.543	Ro	47.347.592	Ro	17.886.868	Ro	15.782.531	Ro	33.669.399	Ro	13.678.193	Ro	10.521.687	Ro	24,199,550
Peralatan dan Perlengkapan	Ro	7.243.500	Ro	7.723.000	Ro	14,966,500	Ro	5.219.870	Ro	4.870,200	Ro	10.090.070	Ro	5.567.800	Ro	5.112.560	Ro	10.680.360
Jagrak (Penyangga	Rọ	42.850.000	Rọ	39.761.800	Rọ	\$2.611.500	Rp	36.780.900	Rọ	32.398.420	Rọ	691.793.320	Rọ	39.265.700	Rọ	42.380.900	Rp	\$1.646.600
Masmer) Pemeliharaan Masmer							Rφ	25.230.800	Rφ	22.460.800	Rø	47.691.600	Rø	38.691.100	Rø	41.267.800	Ro	9.958.900
Overhead Lain - Lain	Ro	67.957.200	Ro	66.705.000	Ro	134.695.200	Re	58.265.550	Ro	54.378.900	Ro	112.644.450	Ro	57.214.500	Ro	57.089.700	Re	114.304.200
Total Biaya yang																		
Berhubungan Dengan Volume Produksi	Rei	410.746.651	Ro	2.668.135.141	Ro	5.078.881.792	Re	1.510.148.120	Re	2.664.416.172	Ro .	5.174.564.292	Ro :	558.116.318	Ro	2.826.498.047	Ro	384.614.365
Volume Produksi	Rφ	27.989	Rφ	21.611	Ro	49.600	Rφ	3.136	Rφ	2.948	Ro	6.084	Rφ	1.745	Re	1.771	Rφ	3.510
Total Biaya 1 (berhubungan dengan volume					Rø	102.397					Rp	\$50.520					Rφ	1.531.460
produksi) Total Biaya 2																		
(berhubungan dengan Luas Pabrüt)																		
Pajak Bumi dan Bangunan	Rọ	3.228.000	Ro	2.824.500	Ro	6.052.500	Rp	2.286.500	Ro	2.017.500	Ro	4.304.000	Ro	2.198.200	Ro	2.145.190	Ro	4.343.390
Peyusutan Pabrik	Ro	27.430.900	Ro	25.325.420	Ro	52,756,320	Ro	25.211.450	Ro	21.245.800	Ro	46.457.250	Ro	23.976.800	Ro	19.386.500	Ro	43.363.30
Listoik Babtick Air Babtik		160.777.224 99.440.211		130.467.298 \$5.3\$8.129		300.244.522 184.828.340										70.323.822 36.061.079		166.767.43 \$6.422.83
Total Biaya yang Berhubungan Dengan Luas	Ro	290.876.335	Ro	253.005.347	Ro	543.881.682	Ro	208.376.554	Ro	182.626.282	Ro	391.002.836	Ro	173.046.369	Ro	127.916.591	Re	300.962.960
Pabrik									-				-					
Luas Pabrik Total Biava 2	Rφ	2.880	Rφ	2.520	Rφ	5.400	Rφ	2.040	Rφ	1.800	Rφ	3.840	Rφ	1.560	Rφ	1.200	Rφ	2.760
(berhubungan dengan luas					Rφ	100.719					Rø	101.824					Rø	109.045
Pabrik) Total Biaya 3 (berhubungan																		
denganJumlah Pengiriman)																		
Pemeliharaan Kendaraan	Ro	37.814.700	Rφ	35.911.300	Ro	73.726.000	Rφ	35.761.400	Rp	33.217.650	Ro	68.979.050	Rø	31.435.670	Ro	29.856.700	Ro	61 292 370
Penyusutan Kendaraan	Rọ	42.453.000	Ro	39.876.200	Ro	\$2.329.200	Rø	37.245.780	Ro	33.421.160	Ro	70.666.940	Rø	32.423.500	Ro	29.879.850	Ro	62.303.350

Overbead Pabrik	P	avertine	E	mpire Beige		Total Biaya T+E	0	pera Vaticano		Golden Venatino		Total Biaya O+G		Statuario		Potoro Gold	T	otal Biaya S + P
Total Biaya yang Berhubungan Dengan Jumlah Pengiriman	Ro S	0.2 <mark>6</mark> 7.700	Rø	75.787.500	Rø	156.055.200	Rø	73.007.150	Rø	66.638.810	Ro	139.645.990	Re	63.589.170	Rp	59.736.550	Rp	112.595.720
Jumlah Pengiriman Total Biava 3	Rφ	25.750	Rφ	19.015	Rφ	<mark>44.76</mark> 5	Rφ	2.101	Rφ	1.592	Rφ	3.696	Rφ	750	Rφ	567	Fφ	1.317
(berkubungan dengan Jumlah Pengiriman)					Rφ	3.486					Rę	37.814					Rø	93.846
Total Biaya 4 (berhubungan dengan jam tenaga kerja langsung) Tenaga Kerja																		
Fidak Langsung Total Biaya yang Serbubungan	Rq39	6.551.520	Rọ	346.982.580	Rφ	743.534.100	Rọ	280.890.660	Ro	247.844.700	Rø	528.735.360	Rp	214.798.740	Rφ	165.889.800	Rọ	380.028.540
Dengan jam Tenaga Kerja Langrung	Rp39	6.551.520	Rp	346.982.580	Rp	743.534.100	Rp	250.590.650	Ro	247.544.700	Rp	528.735.360	Rọ	214.798.740	Ro	165.889.800	Ro	380.028.540
Jam Tenaga Kerja Langsung	Rφ	11.052	Rọ	10.584	Rp	21.636	Rø	9.837	Rφ	9.404	Rø	19.241	Ro	\$.\$49	Rp	\$.350	Rp	17.225
Total Biaya 4 'berhubungan Sengan jam enaga kerja angsung)					Rp	34.366					Rø	27,480					Rφ	22.057
Total Biaya 5 berhubungan lengan mesin) Pemeliharaan																		
San Perbaikan Mesin	Rp 5	7.216.000	Rọ	53,187,000	Rp	110.403.000	Rp	52.112.650	Rp	50.275.600	Rọ	102 385 250	Rp	50.112.150	Rọ	48.176.890	Rọ	95.529.040
Penyusutan Jesin	Rp	2.145.800	Ro	20.170.600	Rp	22.316.400	Rp	20.055.170	Rp	19.170.600	Rp	22.316.400	Re	15.957.611	Rp	16.950.950	Rp	35.968.56
Total Biaya yang Jerhubungan Jengan jam Jesin	Ro S	9.361.800	Rφ	73.357,600	Rp	132.719.400	Rp	72.167.820	Rp	69.446.200	Rø	141.614.020	Rp	69.099.761	Ro	65.697.840	Rọ	134.797.60
Jam Mesin	Rφ	13.991	Rφ	12.242	Ŧφ	26.233	Τç	9.910	Rφ	\$.744	Rφ	18.654	Rφ	7.578	Rφ	5.830	Rφ	13.400
Total Biaya 5 berhubungan lengan jam nesin)					Rę	5.059					Rp	7.592					Rp	10.05-

Table 3 Calculation Pool Rate per Products (continued)

Calculation of overhead costs by cost categories, it is starting with counting the pool rate = total overhead cost: cost driver.

Table 4 Production Cost of Activity Based Costing System of Common Marble Type
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	M	armer Common : Tra	vertir	ie	Marmer Common : Empire Beige					
	Per	hitungan overhead Ke	lompi	k 1	Perhitungan overhead Kelompok 1					
Pool Rate Rp102.397	x	Volume Produksi 27989	=	Rp.865.984.324	Cost Driver Rp102.397.00	x	Volume Produksi 21611	=	Rp2.212.897.468	
Perhitungan overhead Kelompk 2						Perh	itungan overhead Ke	lompk	2	
Pool Rate Rp100.719	x	Luas Pabrik 2880	=	Rp290.070.230	Cost Driver Rp100.719	x	Luas Pabrik 2520	=	Rp253.811.452	
Perhitungan overhead Kelompk 3						Perh	itungan overhead Ke	lompk	3	
Pool Rate Rp3.486	x	Jumlah Pengiriman 25750	=	Rp89.761.021	Cost Driver Rp3.486	x	Jumlah Pengiriman 19018	=	Rp66.294.179	
	Per	hitungan overhead Ke	lompi	k 4		Perhitungan overhead Kelompk 4				
Pool Rate Rp34.366	x	Jam Tenaga Kerja Langsung 11052	=	Rp379.808.600	Cost Driver Rp34.3666	x	Jam Tenaga Kerja Langsung 10584	=	Rp363.725.500	
Perhitungan overhead Kelompk 5				Perhitungan overhead Kelompk 5						
Pool Rate Rp5.059	x	Jam Mesin 13991	=	Rp70.784.017	Cost Driver Rp5.059	х	Jam Mesin 12242	=	Rp61.935.583	
Tota	Total Overhead Pabrik Rp3.696.408.193			p3.696.408.193	Total Overhead Pabrik			Rp2.958.663.981		

Based on Table 2, Table 3, and Table 4, it is known that the company is still using conventional methods. An overview of the amount of the production cost of each species using the calculations made by the company is as follows (1) Common marble type consists of Travertine =

 $Rp461.963/m^2$ and Empire Beige = $Rp667.395/m^2$. (2) Limited marble type consists of Opera Vaticano = $Rp4.277.019/m^2$ and Golden Venatino = Rp4.86402 million/m². (3) Exotic marble type consists of Statuario = $Rp7.574.105/m^2$ and Potoro Gold = $Rp8.239.712/m^2$.

Production Cost of A	Activity Based Costing of Con	mmon Marble Type				
	Travertine	Empire Beige				
Direct Cost Production	Rp9.468.830.925	Rp10.827.079.613				
Total of Direct Labor	Rp204.249.600	Rp178.718.400				
Total of Overhead	Rp3.696.408.193	Rp2.958.663.981				
Production Cost	Rp13.369.488.718	Rp13.964.461.994				
Production Volume	27.989 m ²	21.611 m ²				
Production Cost/m ²	Rp477.669/m ²	Rp646.174/m ²				

Table 5 Production Cost of Activity Based Costing Common Type

Table 6 Production Cost of Activity Based Costing System of Limited Marble Type

	Ma	rmer Limited : Opera	Vatio	cano	Marmer Limited : Golden Venatino							
	Pe	e <mark>rhitungan</mark> overhead K	elomp	k 1	Perhitungan overhead Kelompok 1							
Pool Rate Rp850.520	x	Volume Produksi 3136	=	Rp.2.667231035	Pool Rate Rp850.520	x	Volume Produksi 2984	=	Rp2.537.951.980			
	Perhitungan overhead Kelompk 2						Perhitungan overhead Kelompk 2					
Pool Rate Rp101.824	x	Luas Pabrik 2040	=	Rp207.720.257	Pool Rate Rp101.824	x	Luas Pabrik 1800	=	Rp183.282.579			
Perhitungan overhead Kelompk 3						Perhitungan overhead Kelompk 3						
Pool Rate Rp37.814	x	Jumlah Pengiriman 2101	=	Rp79.446.581	Pool Rate Rp37.814	x	Jumlah Pengiriman 1592	=	Rp60.199.409			
	Pe	erhitungan overhead K	elomp	k 4		Perhitungan overhead Kelompk 4						
Pool Rate Rp27.480	x	Jam Tenaga Kerja Langsung 9837	=	Rp270.317.018	Pool Rate Rp27.480	x	Jam Tenaga Kerja Langsung 9404	=	Rp258.418.342			
Perhitungan overhead Kelompk 5						Perhitungan overhead Kelompk 5						
Pool Rate Rp7.592	x	Jam Mesin 9910	=	Rp75.232.923	Pool Rate Rp7.592	x	Jam Mesin 8744	=	Rp66.381.097			
Tota	ıl Ove	erhead Pabrik	I	Rp3.299.947.814	Total Overhead Pabrik RI			Rp3.106.233.408				

Table 7 Production Cost of Activity Based Costing

Production Cost of Activity Based Costing									
	Opera Vaticano	Golden Venatino							
Direct Cost Production	Rp10.123.463.238	Rp10.980.492.664							
Total of Direct Labor	Rp144.676.800	Rp127.656.000							
Total of Overhead	Rp3.299.947.814	Rp3.106.233.408							
Production Cost	Rp13.568.087.852	Rp14.214.382.072							
Production Volume	3.136 m^2	2.948 m^2							
Production Cost/m ²	Rp4.326.559/m ²	Rp4.821.704/m ²							

Marmer Exotic : Statuario Perhitungan overhead Kelompk 1					Marmer Exotic : Potoro Gold					
					Perhitungan overhead Kelompok 1					
<i>Pool Rate</i> Rp1.531.460	х	<i>Volume</i> Produksi 1745	=	Rp.2.672.398.199	<i>Pool Rate</i> Rp1.531.460	х	<i>Volume</i> Produksi 1771	=	Rp2.712.216.166	
	nitungan overhead K	ok 2	Perhitungan overhead Kelompk 2							
Pool Rate Rp109.045	x	Luas Pabrik 1560	=	Rp170.109.466	Pool Rate Rp109.045	x	Luas Pabrik 1200	=	Rp130.853.461	
Perhitungan overhead Kelompk 3					Perhitungan overhead Kelompk 3					
Pool Rate Rp93.846	x	Jumlah Pengiriman 750	=	Rp170.109.499	Pool Rate Rp109.045	x	Jumlah Pengiriman 567	=	Rp53.210.914	
Perhitungan overhead Kelompk 4					Perhitungan overhead Kelompk 4					
Pool Rate Rp22.057	x	Jam Tenaga Kerja Langsung 8849	=	Rp195.186.752	Pool Rate Rp22.057	x	Jam Tenaga Kerja Langsung 8380	=	Rp184.841.788	
Perhitungan overhead Kelompk 5					Perhitungan overhead Kelompk 5					
Pool Rate Rp10.054	x	Jam Mesin 7578	=	Rp76.185.577	Pool Rate Rp10.054	x	Jam Mesin 5830	=	Rp58.612.024	
Total Overhead Pabrik		Rp3.184.264.834		Total	Total Overhead Pabrik			Rp3.139.734.352		

Table 8 Production	Cost of Activity	Based Costing	System of Exotic	Marble Type

Table 9 Production Cost of Activity Based Costing

Production Cost of Activity Based Costing						
	Statuario	Potoro Gold				
Direct Cost Production	Rp10.027.257.332	Rp11.262.347.093				
Total of Direct Labor	Rp110.635.200	Rp85.104.000				
Total of Overhead	Rp3.184.264.234	Rp3.193.734.352				
Production Cost	Rp13.322.157.366	Rp13.139.734.352				
Production Volume	1745 m^2	1.771 m^2				
Production Cost/m ²	Rp7.634.474/m ²	Rp8.180.229/m ²				

Table 10 Reconciliation of Production Cost

Sistem Yang digunakan Perusahaan		Volume Produksi	Total	Sistem Activity Volume Based Poduksi Costing		Total	Selisih Antar Sistem	Keterangan		
				Jenis (Comr	non				
				Trav	ertir	ie				
Rp462.070	х	27989	Rp12.932.877.230	Rp477.669	х	27989	Rp13.369.477.641	Rp(436.600.411)	Understated	
				Empi	e Be	ige				
Rp667.395	х	21611	Rp14.423.073.345	Rp646.174	Х	21611	Rp13.964.466.314	Rp458.607.031	Overstated	
				Jenis	Limi	ted				
				Opera	Vatio	cano				
Rp4.277.019	х	3136	Rp13.412.731.584	Rp4.326.559	х	3136	Rp13.568.089.024	Rp(155.357.440)	Understated	
				Golden	Vena	atino				
Rp4.864020	х	2948	Rp14.339.130.960	Rp4.821.704	х	2948	Rp14.214.383.392	Rp124.747.568	Overstated	
				Jenis	Exo	tic				
				Stat	uari	0				
Rp7.574.105	х	1745	Rp13.216.813.225	Rp7.634.474	х	1745	Rp13.322.157.130	Rp(105.343.905)	Understated	
				Potor	o Go	old				
Rp8.239.712	х	1771	Rp14.592.529.952	Rp8.180.229	х	1771	Rp14.487.185.559	Rp105.344.393	Overstated	
Total		Rp82.917.156.296	Total		Rp82.925.759.060	Rp(8.602.764)	Undertated			
				Stat	uari	0				
Rp7.574.105	х	1745	Rp13.216.813.225	Rp7.634.474	х	1745	Rp13.322.157.130	Rp(105.343.905)	Understated	
				Potor	o Go	ld				
Rp.8.239.712	х	1771	Rp14.592.529.952	Rp8.180.229	х	1771	Rp14.487.185.559	Rp105.344.393	Overstated	
Total			Rp82.917.156.296	Tot	Total		Rp82.925.759.060	Rp(8.602.764)	Understated	

CONCLUSIONS

There are several conclusions that can be drawn from the research that has been done. First, PT Mulia Sejati Gallery is an import-export company engaged in the manufacture of mining processing of natural stone marble, granite, onyx, and other kinds of that. Second, PT Mulia Sejati Gallery is still using conventional measuring systems. The cost of production of marble that is being discussed in this research is Rp12.932.877.230 and Rp14.423.073.345 each for common travertine and common empire beige. While the cost of production for limited types are limited opera vaticano Rp13.412.731.584 and limited golden venatino Rp14.33996 million. For the limited kind is Rp13.216.813.225 and Rp14.592.952 each for statuario and potoro gold. Third, if the system uses activity based costing in determining the cost of production, then the amount of the cost of production on each type is common travertine Rp13.369.477.641, common empire beige Rp13.964.466.314, limited opera vaticano Rp13.568.089.024, limited golden venatino Rp14.214.747.568, exotic statuario Rp13.322.157.130, exotic potoro gold Rp14.487.185.559. Fourth, by calculating the difference, the disparity of the cost of production of both systems are understated and occurs in three types of marble, namely common travertine Rp436.600.411, limited opera vaticano Rp155.357.440, and exotic statuario Rp105.343.905. Fifth, there is excess recording or overstated within the type of common empire beige Rp458.607.031. Limited opera vaticano Rp124.747.568, exotic potoro gold Rp105.344.393. Sixth, the overall cost of production used by the company is too low or understated with the amount of Rp8.602.764.

Some suggestions that can be recommended for PT Mulia Sejati Gallery include (1) after overall analysis, there is a recording that is too low and too high on the determination of cost of production. This should be evaluated immediately to sustain the company. (2) PT Mulia Sejati Gallery is advised to review the production cost calculation system that is currently used. (3) PT Mulia Sejati Gallery is advised to use the system to calculate the cost of production by using the activity-based costing system. (4) Training and in-depth understanding of marble are needed to be done for some employees who work directly in the production process for the sake of wasting reduction on raw materials.

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